

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 December 2004 (16.12.2004)

PCT

(10) International Publication Number
WO 2004/108941 A1

(51) International Patent Classification⁷: **C12P 1/02**, 7/64,
C11B 1/00, 3/00, A61K 3/23, 31/20, 35/12, 35/78

(21) International Application Number:
PCT/AU2004/000745

(22) International Filing Date: 4 June 2004 (04.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003902823 4 June 2003 (04.06.2003) AU

(71) Applicant and
(72) Inventor: **TURNER, Athol, Gillies** [AU/AU]; 19 Norris
Place, Narellan Vale, NSW 2567 (AU).

(74) Agent: **SPRUSON & FERGUSON**; GPO Box 3898, Syd-
ney, NSW 2001 (AU).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: BIOLOGICALLY ACTIVE OILS

(57) Abstract: A process for the production of fats or oils and their extracts containing biologically-active chemical compounds from a lipid substrate, the process comprising: a) inoculation of a lipid substrate with fungally derived lipolytic enzymes b) incubating the inoculated substrate for a period of between about 7-120 days at a temperature of between about 4-35°C, at a humidity of between about 75-100%, and c) processing said substrate mixture to obtain a biologically active fat or oil.

WO 2004/108941 A1

REVISED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 December 2004 (16.12.2004)

PCT

(10) International Publication Number
WO 2004/108941 A1

(51) International Patent Classification⁷: **C12P 1/02**, 7/64,
C11B 1/00, 3/00, A61K 31/23, 31/20, 35/12, 35/78

(21) International Application Number:
PCT/AU2004/000745

(22) International Filing Date: 4 June 2004 (04.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003902823 4 June 2003 (04.06.2003) AU

(71) Applicant and

(72) Inventor: **TURNER, Athol, Gillies** [AU/AU]; 19 Norris
Place, Narellan Vale, NSW 2567 (AU).

(74) Agent: **SPRUSON & FERGUSON**; GPO Box 3898, Syd-
ney, NSW 2001 (AU).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

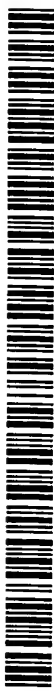
(88) Date of publication of the revised international search
report: 27 January 2005

(15) Information about Correction:
see PCT Gazette No. 04/2005 of 27 January 2005, Sec-
tion II

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: BIOLOGICALLY ACTIVE OILS

(57) Abstract: A process for the production of fats or oils and their extracts containing biologically-active chemical compounds from a lipid substrate, the process comprising: a) inoculation of a lipid substrate with fungally derived lipolytic enzymes b) incubating the inoculated substrate for a period of between about 7-120 days at a temperature of between about 4-35°C, at a humidity of between about 75-100%, and c) processing said substrate mixture to obtain a biologically active fat or oil.



WO 2004/108941 A1